STRUCTURAL DESIGN LOADS

BUILDING CODE:

OCCUPANCY CATEGORY:

2012 INTERNATIONAL BUILDING CODE

EARTHQUAKE DESIGN DATA: PER DEPARTMENT OF VETERANS AFFAIRS - SEISMIC DESIGN REQUIREMENTS H-18-8 1. SEISMIC IMPORTANCE FACTOR: 2. SPECTRAL RESPONSE ACCELERATIONS:

3. SITE CLASSIFICATION: D (ASSUMED) 4. DESIGN SPECTRAL RESPONSE ACCELERATIONS:

SDS = 0.364SD1 = 0.112

S1 = 0.070

5. SEISMIC DESIGN CATEGORY:

SEISMIC BRACING OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS 1. FOR SEISMIC DESIGN CATEGORY D COMPONENT BRACING REQUIREMENTS ARE AS FOLLOWS:

ARCHITECTURAL COMPONENTS: Ip = 1.5REQUIRED

MECHANICAL/ELECTRICAL COMPONENTS: REQUIRED

Ip = 1.5REQUIRED

2. INTERSTORY DRIFTS: DESIGN OF COMPONENTS SUPPORTED AT DIFFERENT ELEVATIONS ARE TO BE DESIGNED TO ACCOMIDATE THE FOLLOWING INTERSTORY ELASTIC DEFLECTION: 3/4" PER FLOOR

STRUCTURAL CONCRETE NOTES

SUBMIT ENGINEERED CONCRETE MIX DESIGNS, INCLUDING REQUIRED BACKUP DATA, FOR EACH TYPE OF CONCRETE PROPOSED FOR USE TO THE ARCHITECT/ ENGINEER FOR REVIEW. ALLOW ADEQUATE TIME FOR REVIEW PRIOR TO PERFORMING CONCRETE WORK.

DETAIL, FABRICATE, LABEL, SUPPORT AND PLACE CONCRETE REINFORCEMENT IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", LATEST EDITIONS.

SUBMIT DETAILED SHOP DRAWINGS INDICATING REINFORCEMENT SIZE, SPACING AND PLACEMENT TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION.

CLEAN AND MOISTEN CONSTRUCTION JOINTS BETWEEN NEW CONCRETE IMMEDIATELY PRIOR TO PLACING FRESH CONCRETE.

DO NOT USE CALCIUM CHLORIDE IN CONCRETE.

REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR CURBS, PADS, DEPRESSIONS, WALL/SLAB OPENINGS, SPECIAL FLOOR FINISHES, ETC.

REFER TO ACI 318, CHAPTER 7.7 FOR MINIMUM CONCRETE COVER REQUIREMENTS, UNO.

REFER TO ACI 305 FOR REQUIREMENTS FOR PLACING CONCRETE IN HOT WEATHER AND TO ACI 306 FOR REQUIREMENTS FOR PLACING CONCRETE IN COLD WEATHER.

ADHESIVE ANCHORING SYSTEM HIT-HY 150 ADHESIVE BY HILTI.

PROVIDE ONLY CONCRETE. REINFORCING AND MATERIALS OF THE TYPES AND GRADES LISTED IN THE TABLE BELOW, UNLESS NOTED OTHERWISE.

ALL OTHER CONCRETE

WELDED WIRE FABRIC

GRADE ASTM A-615, GRADE 60 ASTM A-185

STRUCTURAL STEEL NOTES

DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND CODES, LATEST EDITIONS.

PERFORM WELDING USING CERTIFIED WELDERS AND IN ACCORDANCE WITH THE AWS "STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. COMPLY WITH AISC SPECIFICATION FOR MINIMUM FILLET WELD SIZES, BUT DO NOT USE LESS THAN A 3/16 INCH FILLET UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT/ ENGINEER FOR REVIEW. SHOW

SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR

STRUCTURAL STEEL. SCHEDULE SUBMISSIONS TO ALLOW ADEQUATE TIME FOR REVIEW PRIOR TO FABRICATION.

USE BOLTED JOINTS IN FIELD CONNECTIONS WHENEVER POSSIBLE, UNLESS WELDED JOINTS ARE DETAILED.

PROVIDE A MINIMUM OF TWO (2) BOLTS AT EACH FAYING SURFACE.

AFTER FABRICATION, CLEAN STEEL OF RUST, LOOSE MILL SCALE, DIRT, OIL, GREASE OR OTHER FOREIGN MATERIALS.

REFER TO THE ARCHITECTURAL DRAWINGS FOR THE REQUIRED FIRE RATINGS AND UL ASSEMBLY NUMBERS.

DO NOT FIELD CUT STRUCTURAL STEEL UNLESS REVIEWED AND APPROVED BY THE ARCHITECT/ENGINEER IN WRITING.

ERECTION PROCEDURES, SEQUENCES AND COORDINATION OF WORK WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE ADDITIONAL STEEL REQUIRED FOR ERECTION PURPOSES AT NO COST TO THE VETERAN'S ADMINISTRATION. REMOVE THIS ADDITIONAL STEEL UNLESS DIRECTED OTHERWISE BY THE VETERAN'S ADMINISTRATION IN WRITING.

PROVIDE NEW MATERIAL CONFORMING TO THE FOLLOWING REQUIREMENTS FOR STRUCTURAL STEEL:

WIDE FLANGE SHAPES, WT SECTIONS

ASTM A992

ASTM A36

Date

08/15/2013

CHANNELS AND ANGLES ALL OTHER STEEL MEMBERS

ASTM A36 UNO ASTM A-325 HIGH STRENGTH BOLTS. NUTS AND WASHERS

STEEL SHAPE WELDING ELECTRODE

(MIN. 3/4" DIAMETER) E70XX

STRUCTURAL STEEL DECK NOTES

FABRICATE STEEL DECKING FROM STEEL TYPE ASTM A653. STRUCTURAL QUALITY HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI. COMPLY WITH STEEL DECK INSTITUTE SPECIFICATIONS FOR DESIGN, DETAILING, FABRICATION AND ERECTION OF STEEL DECK. USE STRUCTURAL STEEL DECK WITH A MINIMUM THICKNESS OF AT LEAST 20 GAGE, UNLESS NOTED OTHERWISE.

PROVIDE CONTINUOUS SHEET METAL CLOSURES AT SLAB OPENINGS AND SLAB EDGES AND CONTINUOUS DECK CLOSURES AT DECK ENDS.

THE ASSUMED CONSTRUCTION LIVE LOAD USED IN DESIGN IS A 20 PSF UNIFORM LOAD OR A 150-POUND CONCENTRATED LOAD ON A 1'-0" WIDE SECTION OF DECK. DO NOT EXCEED THE ASSUMED CONSTRUCTION DESIGN LIVE LOAD WITHOUT FIRST TAKING PROPER SAFETY PRECAUTIONS, INCLUDING TEMPORARY SHORING. FOLLOW APPLICABLE LOCAL CODE AND AISI REQUIREMENTS.

MISCELLANEOUS

CHECK DIMENSIONS AGAINST THE REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. RESOLVE APPARENT INCONSISTENCIES IN THE CONTRACT DOCUMENTS WITH THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.

SHOW OPENINGS THROUGH STRUCTURAL MEMBERS ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW. OPENINGS WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE SUBJECT TO REVIEW AND ACCEPTANCE AND ARE TO BE CLEARLY INDICATED FOR REVIEW AND ACCEPTANCE ON THE SHOP DRAWINGS.

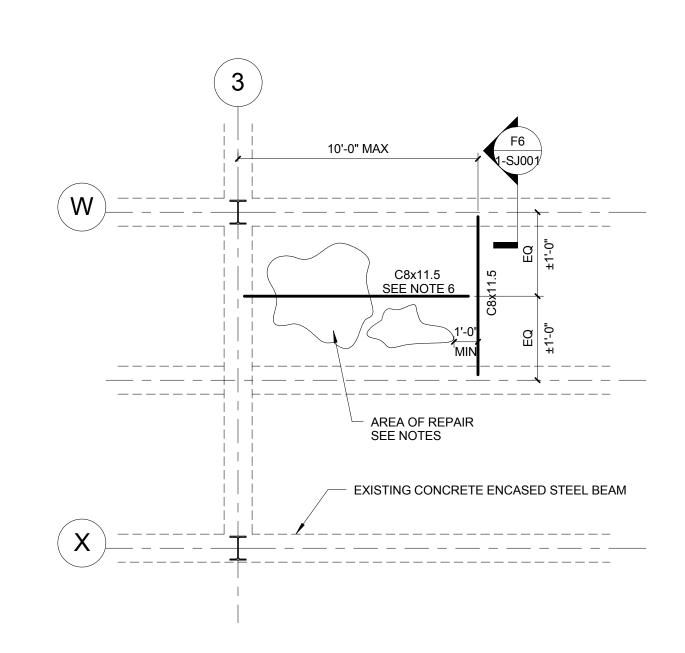
DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, USE DETAILS OF SIMILAR CONSTRUCTION, SUBJECT TO APPROVAL BY THE ENGINEER.

WHEREVER THERE IS CONFLICT BETWEEN DETAILS OR TWO DETAILS APPLYING TO THE SAME CONDITION, THE ENGINEER WILL HAVE SOLE AUTHORITY TO DETERMINE WHICH DETAIL IS THE MOST APPROPRIATE FOR THE CONDITION.

PROMPTLY NOTIFY THE ENGINEER OF ANY STRUCTURAL MEMBER CALLED OUT ON THE ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL DRAWINGS THAT IS NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS. DESIGN OF THESE MEMBERS WILL BE PROVIDED AS NECESSARY BY THE STRUCTURAL ENGINEER UPON NOTIFICATION.

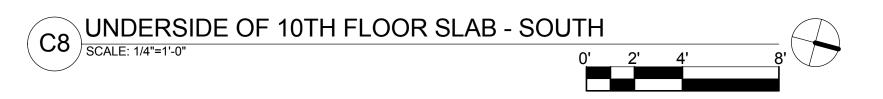
THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, HANGERS AND OTHER MISCELLANEOUS ITEMS REQUIRED FOR THE SUPPORT OF MECHANICAL, ELECTRICAL AND PLUMBING ITEMS SUSPENDED FROM THE STRUCTURE.

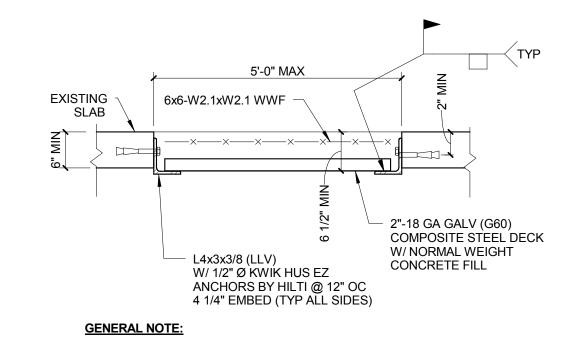
DO NOT MAKE MODIFICATIONS, ALTERATIONS OR REPAIRS TO THE STRUCTURE WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED NEW YORK STATE AND EMPLOYED BY CONTRACTOR.



WELDED WIRE REINFORCEMENT AND UNCONSOLIDATED CONCRETE REPAIR.

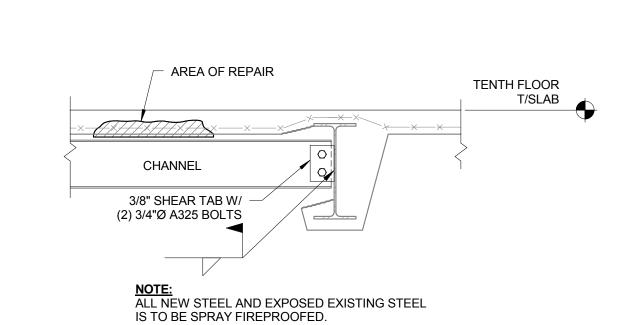
- DO NOT CUT ANY EXISTING REINFORCEMENT. REMOVE LOOSE MATERIAL WITH HAND TOOLS.
- APPLY BONDING AGENT TO UNDERSIDE AREA OF REPAIR AND 6" BEYOND.
- APPLY REPAIR MORTAR TO AREA OF REPAIR AND 6" BEYOND. MORTAR THICKNESS SHOULD EXTEND 1/2" BELOW THE BOTTOM OF INSTALL BONDING AGENT AND REPAIR MORTAR, DO NOT EXCEED
- ALLOWABLE MORTAR THICKNESS FOR ANY SINGLE LAYER. IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.
- SET CHANNEL 1" BELOW UNDERSIDE OF EXISTING SLAB. GROUT SPACE BETWEEN CHANNEL AND SLAB SOLID.





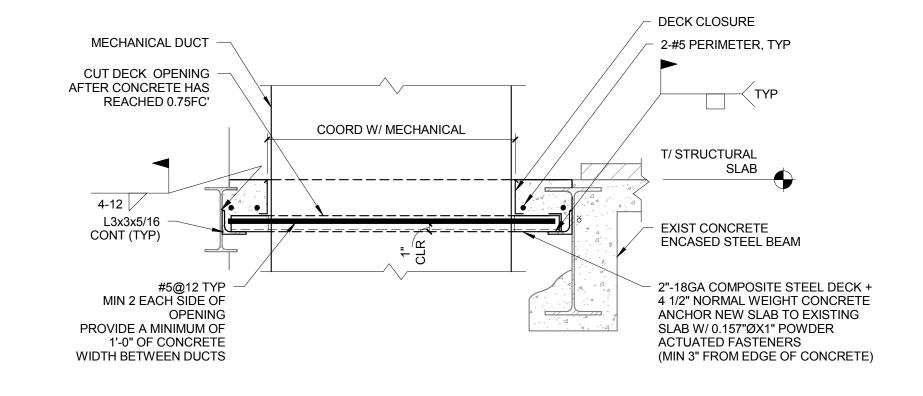
ALL INFILL AND ASSOCIATED STEEL TO RECEIVE FIREPROOFING TO MATCH EXISTING RATING. PATCH AND REPAIR EXISTING FIREPROOFING TO MAINTAIN REQUIRED RATING.

EXISTING SLAB OPENING INFILL DETAIL

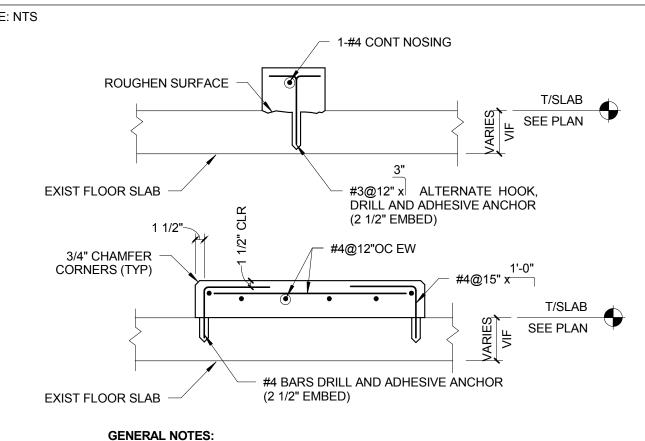


Drawing Title

SUPPORT FRAME CONNECTION DETAIL



MECHANICAL SHAFT INFILL



GENERAL NOTES: SEE MEP DWGS FOR EXACT SIZE AND LOCATION OF CONCRETE PADS AND/OR CURBS. REFER TO DRAWING AF002 FOR NEW FINISHES.

TYPICAL HOUSEKEEPING PAD AND CURB AT SLAB ON STEEL DECK DETAIL

BA

RP

CONSULTANTS:	
ASBESTO	
Egan Enviro	

ASBESTOS ABATEMENT CONSULTANT: gan Environment Consulting, Inc. 14 HIGH STREET

Fax: (201) 848-7791

MAHWAH, NEW JERSEY 07430

Tel: (201) 848-7790

KEY PLAN:

ARCHITECT/ENGINEERS: Baltimore ■ Boston ■ Buffalo ■ Calgary ■ Chicago

Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix

St. Louis ■ San Francisco ■ Shanghai ■ Toronto

Vancouver ■ Victoria ■ Washington DC

BUILDING IS FULLY SPRINKLERED Project Number Project Title 630PR2600 VA NY HARBOR HEALTHCARE SYSTEM STRUCTURAL DETAILS AND GENERAL NOTES MANHATTAN VAMC - BUILDING 1 **Building Number** 9TH FLOOR RENOVATIONS Approved: Project Director Drawing Number 423 EAST 23RD STREET NEW YORK, NY 10010 Checked

AUGUST 15, 2013

SCALE: NTS

Construction & **Facilities** Management



Office of

Scale: AS NOTED

ISSUED FOR CONSTRUCTION

VA FORM 08-623